TABLE OF CONTENTS

JULY TO DECEMBER, 1993

Number 1, July 1993

Editorials

Reflections on Volume 100 of the *American Journal of Clinical Pathology* 1
MARK R. WICK

Something Old? Something New? Second Primary or Pulmonary Metastasis in the Patient With Known Extrathoracic Carcinoma 4
FREDERIC B. ASKIN

ANATOMIC PATHOLOGY

Original Articles

HPV DNA and the Risk of Squamous Intraepithelial Lesions of the Uterine Cervix in Young Women 6
A. JOAN LEVINE, JANICE HARPER, LEE HILBORNE, DOROTHY L. ROSENTHAL, EDWARD WEISMEIER, AND ROBERT W. HAILE

Detection of Human Papillomavirus in Cervical Swab Samples by ViraPap and in Cervical Biopsy Specimens by *In Situ* Hybridization 12
MICHAEL P. MEYER, RAFAEL I. CARBONELL, NANCY A. MAUSER, ANISA I. KANBOUR, AND ANTONIO J. AMORTEGUI

Estrogen and Progesterone Receptor, Human Papillomavirus, and DNA Ploidy Analysis in Invasive Carcinoma of the Cervix in Pregnancy 18
D.I. ROBERTSON, D. PASLAWSKI, M.A. DUGGAN, G.C.E. STUART, AND J.G. NATION

Proliferating Cell Nuclear Antigen Immunoreactivity in Cervical Intraepithelial Neoplasia and Benign Cervical Epithelium 22
MUHAMMAD S. SHURBAJI, SANDRA K. BROOKS, AND THANE S. THURMOND

Adenocarcinoma in the Lung in Patients With Breast Cancer: A Prospective Analysis of the Discriminatory Value of Immunohistology 27
STEPHEN S. RAAB, LAURENCE C. BERG, PAUL E. SWANSON, AND MARK R. WICK

Viral Gene Detection in Oral Neoplasms Using the Polymerase Chain Reaction 36
E. BLAIR HOLLADAY AND WILLIAM L. GERALD

Human Immunodeficiency Virus Type 1 Replication Within Cystic Lymphoepithelial Lesion of the Salivary Gland 41
E. LABOUYRIE, J.P.H. MERLIO, M. BEYLOT-BARRY, B. DELORD, B. VERGIER, G. BROSSARD, D. LACOSTE, J. BEYLOT, B. LENG, H. FLEURY, B. BLOCH, AND A. DE MASCAREL

CLINICAL MICROBIOLOGY AND INFECTIOUS DISEASES

Original Articles

Emergence of Antimicrobial Resistance in Gram-Negative Bacilli Causing Bacteremia During Therapy 47
JAMES D. SIEBERT, RICHARD B. THOMSON, JR., JAMES S. TAN, AND LOWELL W. GERSON

Disseminated Bacillus Calmette-Guérin Infections in Patients With Primary Immunodeficiencies 52
CARLOS ABRAMOWSKY, BENITO GONZALEZ, AND RICARDO U. SORENSEN

An Unusual Form of Pulmonary Aspergillosis in Two Patients With the Acquired Immunodeficiency Syndrome 57
JOANNE L. WRIGHT, LINDSAY LAWSON, NORMAN CHAN, AND DOUGLAS FILIPENKO

HEMATOPATHOLOGY

Original Articles

Marrow B-Cell Precursors Are Increased in Lymphomas or Systemic Diseases Associated With B-Cell Dysfunction 60
ANNE M. VANDERSTEENHOVEN, JAMES E. WILLIAMS, AND MICHAEL J. BOROWITZ

Production and Immunodiagnostic Applications of Antihuman Light Chain Monoclonal Antibodies 67
MASAHIRO ABE, TETSUYA GOTO, STEPHEN J. KENNEL, DENNIS WOLFENBARGER, SALLIE D. MACY, DEBORAH T. WEISS, AND ALAN SOLOMON

TABLE OF CONTENTS

JULY TO DECEMBER, 1993

Number 1, July 1993

Editorials

Reflections on Volume 100 of the *American Journal of Clinical Pathology* 1
MARK R. WICK

Something Old? Something New? Second Primary or Pulmonary Metastasis in the Patient With Known Extrathoracic Carcinoma 4
FREDERIC B. ASKIN

ANATOMIC PATHOLOGY

Original Articles

HPV DNA and the Risk of Squamous Intraepithelial Lesions of the Uterine Cervix in Young Women 6
A. JOAN LEVINE, JANICE HARPER, LEE HILBORNE, DOROTHY L. ROSENTHAL, EDWARD WEISMEIER, AND ROBERT W. HAILE

Detection of Human Papillomavirus in Cervical Swab Samples by ViraPap and in Cervical Biopsy Specimens by *In Situ* Hybridization 12
MICHAEL P. MEYER, RAFAEL I. CARBONELL, NANCY A. MAUSER, ANISA I. KANBOUR, AND ANTONIO J. AMORTEGUI

Estrogen and Progesterone Receptor, Human Papillomavirus, and DNA Ploidy Analysis in Invasive Carcinoma of the Cervix in Pregnancy 18
D.I. ROBERTSON, D. PASLAWSKI, M.A. DUGGAN, G.C.E. STUART, AND J.G. NATION

Proliferating Cell Nuclear Antigen Immunoreactivity in Cervical Intraepithelial Neoplasia and Benign Cervical Epithelium 22
MUHAMMAD S. SHURBAJI, SANDRA K. BROOKS, AND THANE S. THURMOND

Adenocarcinoma in the Lung in Patients With Breast Cancer: A Prospective Analysis of the Discriminatory Value of Immunohistology 27
STEPHEN S. RAAB, LAURENCE C. BERG, PAUL E. SWANSON, AND MARK R. WICK

Viral Gene Detection in Oral Neoplasms Using the Polymerase Chain Reaction 36
E. BLAIR HOLLADAY AND WILLIAM L. GERALD

Human Immunodeficiency Virus Type 1 Replication Within Cystic Lymphoepithelial Lesion of the Salivary Gland 41
E. LABOUYRIE, J.P.H. MERLIO, M. BEYLOT-BARRY, B. DELORD, B. VERGIER, G. BROSSARD, D. LACOSTE, J. BEYLOT, B. LENG, H. FLEURY, B. BLOCH, AND A. DE MASCAREL

CLINICAL MICROBIOLOGY AND INFECTIOUS DISEASES

Original Articles

Emergence of Antimicrobial Resistance in Gram-Negative Bacilli Causing Bacteremia During Therapy 47
JAMES D. SIEBERT, RICHARD B. THOMSON, JR., JAMES S. TAN, AND LOWELL W. GERSON

Disseminated Bacillus Calmette-Guérin Infections in Patients With Primary Immunodeficiencies 52
CARLOS ABRAMOWSKY, BENITO GONZALEZ, AND RICARDO U. SORENSEN

An Unusual Form of Pulmonary Aspergillosis in Two Patients With the Acquired Immunodeficiency Syndrome 57
JOANNE L. WRIGHT, LINDSAY LAWSON, NORMAN CHAN, AND DOUGLAS FILIPENKO

HEMATOPATHOLOGY

Original Articles

Marrow B-Cell Precursors Are Increased in Lymphomas or Systemic Diseases Associated With B-Cell Dysfunction 60
ANNE M. VANDERSTEENHOVEN, JAMES E. WILLIAMS, AND MICHAEL J. BOROWITZ

Production and Immunodiagnostic Applications of Antihuman Light Chain Monoclonal Antibodies 67
MASAHIRO ABE, TETSUYA GOTO, STEPHEN J. KENNEL, DENNIS WOLFENBARGER, SALLIE D. MACY, DEBORAH T. WEISS, AND ALAN SOLOMON

MEDICAL INFORMATICS

Review Article

Informatics: A Subspecialty in Pathology 75
GREGORY J. BUFFONE AND J. ROBERT BECK

BOOK REVIEWS 82

CORRESPONDENCE AND CORRECTIONS 84

Acute Monocytic Leukemia With Chloroacetate Esterase Positivity: FAB M4 or M5? 84
PATRICIA MILLER-CANFIELD, JOANN DUBELL, AND HAROLD R. SCHUMACHER

The Authors' Reply 84
NANCY S. ROSENTHAL AND DIANE C. FARHI

Undertransfusion 85
E. CALLEWAERT

The Author's Reply 85
PAUL D. MINTZ

Limitations of the Osmolal Gap With Toxin Ingestion 85
WILLIAM P. TORMEY

NEWS AND NOTICES 86

INFORMATION FOR AUTHORS 88

Number 2, August 1993

Editorials

Turnaround Time, Point-of-Care Testing, and a Future Role for the Clinical Pathologist 89
M. DESMOND BURKE

Tumoral Amyloidosis of Soft Tissue (Amyloidoma): New Approaches to an Old Problem 91
SHARON W. WEISS

Immediate Management of Mammographically Detected Breast Lesions 92
ROBERT FECHNER

COAGULATION AND TRANSFUSION MEDICINE

Original Articles

Paradoxic Effect of Multiple Mild Coagulation Factor Deficiencies on the Prothrombin Time and Activated Partial Thromboplastin Time 94
EDWARD R. BURNS, S.N. GOLDBERG, AND BARRY WENZ

Behavior of Diluted Activated Partial Thromboplastin Time in Pregnant Women with a Lupus Anticoagulant 99
ALICIA N. BLANCO, BEATRIZ E. GRAND, GRACIELA PIERONI, LETICIA B. PEÑALVA, LILIANA S. VOTO, AND MARIA A. LAZZARI

Hyperaggregation of Platelets Detected by Whole Blood Platelet Aggregometry in Newly Diagnosed Noninsulin-dependent Diabetes Mellitus 103
SHYAMALENDU MANDAL, RAVINDRA SARODE, SUMITRA DASH, AND R.J. DASH

Single Case Report

Artifactual Prolongation of the Activated Partial Thromboplastin Time Mimicking a Coagulopathy: A Lesson Relearned 108
JOHN E. HUMPHRIES, MARY N. ACKER, DONALD E. SCHNELL, AND JOHN W. KNARR

HEMATOPATHOLOGY

Original Articles

Reference Ranges for Lymphocyte Subsets in Pediatric Patients 111
PATRICIA K. KOTYLO, NAOMI S. FINEBERG, KARMA S. FREEMAN, NORMA L. REDMOND, AND COLETTE CHARLAND

Higher White Blood Cell Counts and Band Forms in Newborns Delivered Vaginally Compared with Those Delivered by Cesarean Section 116
RASHED HASAN, SUSUMU INOUE, AND AMITABHA BANERJEE

Diagnosis of Hereditary Spherocytosis with Dual-Angle Differential Light Scattering 119
FLORINDA GILSANZ, M. PILAR RICARD, AND ISABEL MILLAN

An Evaluation of Hemoglobin Determination Using Sodium Lauryl Sulfate 123
ALY KARSAN, IAN MACLAREN, DEBBIE CONN, AND LOUIS WADSWORTH

CLINICAL CHEMISTRY

Original Articles

Serum Prostate-Specific Antigen Levels in Stage A1 Prostatic Cancer 127
MICHAEL K. COHEN, MARK W. RIGGS, PETER N. BRAWN, A. MICHAEL SPIEKERMAN, AND V.O. SPEIGHTS

Comparison of the HemoCue β-Glucose Photometer and Reflotron for Open Heart Surgery 130
RAYMOND E. KARCHER, RHONDA L. INGRAM, FREDERICK L. KIECHLE, AND ELIZABETH SYKES

ANATOMIC PATHOLOGY

Original Articles

Tumoral Presentation of Amyloidosis (Amyloidomas) in Soft Tissues: A Report of 14 Cases 135
JAYASHREE KRISHNAN, WEI-SING CHU, JAMES P. ELROD, AND GLAUCO FRIZZERA

Tenascin Immunoreactivity in Lung Tumors 145
YLERMI SOINI, PAAVO PÄÄKKÖ, KYÖSTI NUORVA, DIA KAMEL, AULI LINNALA, ISMO VIRTANEN, AND VELI-PEKKA LEHTO

A Study of Hepatocellular Carcinoma Using Morphometric and Densitometric Image Analysis 151
BRIAN S. ERLER, HANH M. TRUONG, SUNG S. KIM, MAN H. HUH, STEPHEN A. GELLER, AND ALBERTO M. MARCHEVSKY

Myocarditis Associated with Doxorubicin Cardiotoxicity 158
PAUL B. GAUDIN, RALPH H. HRUBAN, WILLIAM E. BESCHORNER, EDWARD K. KASPER, JEAN L. OLSON, KENNETH L. BAUGHMAN, AND GROVER M. HUTCHINS

Single Case Reports

Bednar Tumor Pattern in Recurring Giant Cell Fibroblastoma 164
JEAN-PIERRE DE CHADARÉVIAN, DOMENICO COPPOLA, AND DEBORAH F. BILLMIRE

Benign Glandular Schwannoma 167
SAMUEL O. YOSHIDA AND BYRON V. TOOT

Cytologic Diagnosis of Metastatic Epithelioid Sarcoma: A Cytologic Mimic of Squamous Cell Carcinoma 171
THEODORE H. NIEMANN AND KENT BOTTLES

ABSTRACTS OF PAPERS 174

BOOK REVIEWS 184

CORRESPONDENCE AND CORRECTIONS 186

Acute Basophilic Leukemia and Acute Eosinophilic Leukemia After Therapy for Non-Hodgkin's Lymphoma 186
LOIS B. TRAVIS, ERIC HOLOWATY, VIRGINIA HUNTER, DIPONKAR BANERJEE, THOMAS G. JONES, AND CHIN-YANG LI

CD5+ Leukemic Monocytoid B-cell Lymphoma and Lymphocytic Lymphomas 187
FAUSTO ADAMI, GIANPIETRO SEMENZATO, FABIO MENESTRINA, AND MARCO CHILOSI

The Author's Reply 188
S. THOMAS TRAWEEK AND KHALIL SHEIBANI

The Defective Nature of Hepatitis Delta Virus 188
T. S. BENEDICT YEN

The Author's Reply 189
JOHN R. CRAIG

NEWS AND NOTICES 190

Number 3, September 1993

Editorials

Postpartum Thyroiditis: The Pathology Slowly Unravels 193
VIRGINIA A. LI VOLSI

Checklists for Surgical Pathology Reports: An Important Step Forward 196
RICHARD L. KEMPSON

Temporal Creatine Kinase Curves in Acute Myocardial Infarction: Implications of a Good Empirical Fit Using the Log Normal Function 198
JOHN C. GRIFFITHS

ANATOMIC PATHOLOGY

Original Articles

Postpartum Thyroiditis: A Clinical, Histologic, and Immunopathologic Study of 15 Cases 200
YUJI MIZUKAMI, TAKATOSHI MICHIGISHI, AKITAKA NONOMURA, TAKUMA HASHIMOTO, SHINOBU NAKAMURA, NORIHISA TONAMI, AND EISUKE TAKAZAKURA

Ki-67 and Proliferating Cell Nuclear Antigen Tumor Proliferative Indices in DNA Diploid Colorectal Adenocarcinomas: Correlation With Histopathologic Characteristics and Cell Cycle Analysis With Two-Color DNA Flow Cytometry 206
MICHAEL D. LINDEN, CHAN K. MA, JAMES KUBUS, RONALD D. BROWN, AND RICHARD J. ZARBO

Relationship Between p53 Expression and Other Prognostic Factors in Human Breast Carcinoma: An Immunohistochemical Study 213
MASSIMO MARTINAZZI, FILIPPO CRIVELLI, CLEMENTINA ZAMPATTI, AND SILVIA MARTINAZZI

Influences on Measurement of Cellular Proliferation by Histology and Flow Cytometry in Mammary Carcinomas Labeled *In Vivo* with Bromodeoxyuridine 218
JAMES J. GOING, PETER D. STANTON, AND TIMOTHY G. COOKE

Endocrine Aspects of Exocrine Cancer of the Pancreas: Their Patterns and Suggested Biologic Significance 223
PARVIZ M. POUR, JOHAN PERMERT, MASASHITO MOGAKI, HIDEKI FUJII, AND KATHERINE KAZAKOFF

Fine-Needle Aspiration of Hürthle Cell Lesions: A Cytomorphologic Approach to Diagnosis 231
JORGE L. GONZALEZ, HELEN H. WANG, AND BARBARA S. DUCATMAN

Prevalence of *Helicobacter pylori* in Brazilian Patients With Gastric Carcinoma 236
ANA M. M. F. NOGUEIRA, GUSTAVO M. RIBEIRO, MARCO A. G. RODRIGUES, DULCIENE M. M. QUEIROZ, EDILBERTO N. MENDES, GIFONE A. ROCHA, AND ALFREDO J. A. BARBOSA

Standardized Reporting of Surgical Pathology Diagnoses for the Major Tumor Types: A Proposal 240
JUAN ROSAI AND MEMBERS OF THE DEPARTMENT OF PATHOLOGY, MEMORIAL SLOAN-KETTERING CANCER CENTER

Review Article

Adenocarcinoma of the Prostate: Part II: Tissue Prognosticators 256
PETER A. HUMPHREY AND PHILIP J. WALTHER

HEMATOPATHOLOGY

Original Articles

Myelodysplastic Syndrome and Acute Myeloid Leukemia After Treatment for Solid Tumors of Childhood 270
DIANE C. FARHI, CATHERINE A. ODELL, AND SUSAN B. SHURIN

Leukemia Cutis: Analysis of 50 Biopsy-Proven Cases With an Emphasis on Occurrence in Myelodysplastic Syndromes 276
TERI A. LONGACRE AND BRUCE R. SMOLLER

True Histiocytic Lymphoma of Small Intestine: Analysis of Two S-100 Protein-Positive Cases With Features of Interdigitating Reticulum Cell Sarcoma 285
MARKKU MIETTINEN, CHRISTOPHER D. M. FLETCHER, AND JERZY LASOTA

CLINICAL CHEMISTRY

Original Articles

Temporal Creatine Kinase Curves in Acute Myocardial Infarction: Implications of a Good Empiric Fit With the Log-Normal Function 293
ROBIN T. VOLLMER, ROBERT H. CHRISTENSON, KEITH REIMER, AND E. MAGNUS OHMAN

Enzyme Rate Assay for 5-Fluorocytosine 299
ALLY SHIVJI, MELVYN BERNSTEIN, AND MICHAEL A. NOBLE

CLINICAL MICROBIOLOGY AND INFECTIOUS DISEASE

Original Articles

Comparison of the E-Test and Reference Agar Dilution Method for Susceptibility of Gram-Negative Anaerobic Organisms 301
PETER R. COUROUX, VIKI E. MASSEY, BEREND C. SHIEVEN, ROBERT LANNIGAN, AND ZAFAR HUSSAIN

Evaluation of a Commercial DNA Purification System for Plasmid Analysis of Nosocomial Bacterial Pathogens 304
KURT D. REED, MARY E. STEMPER, MARY F. VANDERMAUSE, AND PAUL D. MITCHELL

Failure of the Vitek AutoMicrobic System to Detect Beta-Lactam Resistance in *Aeromonas* Species 308
KARL H. SCHADOW, DONALD K. GIGER, AND CHRISTINE C. SANDERS

ABSTRACTS OF PAPERS 311
Abstracts of Paper and Poster Presentations, Scientific Sessions of the Fall Meeting of the American Society of Clinical Pathologists and the College of American Pathologists, October 16–22, 1993, in Orlando, Florida.

Minutes

Minutes of the Annual Business Meeting of the American Society of Clinical Pathologists, October 13, 1992, Las Vegas 351

IN MEMORIAM 362

BOOK REVIEW 363

CORRESPONDENCE AND CORRECTIONS

False-positive Reactions in Cryptococcal Antigen Determination 364
THOMAS H. EBERHARD

Identifying Patients With Erythrocyte Oxidative Stress Susceptibility 364
LILIANA E. CABALLERO, EMILIO J. A. ROLDÁN, AND ANÍBAL PÉREZ LLORET

NEWS AND NOTICES 365

Number 4, October 1993

Editorials

Progress in the Classification of Non-Hodgkin's Lymphoma 367
DENNIS D. WEISENBURGER

Gastrointestinal Stromal Tumors and Proliferating Cell Nuclear Antigen: Prognostic Challenges 369
DOUGLAS W. FRANQUEMONT AND WILLIAM A. GEARY

SPECIAL REPORT

Laboratory Hematology

Recommendations of the International Council for Standardization in Haematology for Ethylenediaminetetraacetic Acid Anticoagulation of Blood for Blood Cell Counting and Sizing 371
INTERNATIONAL COUNCIL FOR STANDARDIZATION IN HAEMATOLOGY: EXPERT PANEL ON CYTOMETRY

HEMATOPATHOLOGY

Original Articles

Diffuse Low-Grade B-Cell Lymphomas: Four Clinically Distinct Subtypes Defined by a Combination of Morphologic and Immunophenotypic Features 373
LAWRENCE R. ZUKERBERG, JEFFREY L. MEDEIROS, JUDITH A. FERRY, AND NANCY L. HARRIS

Pattern of Expression of CD45 RA/RO Isoformic Antigens in Acute Myeloblastic Leukemia Cells 386
SEIJI KAWANO, EIJI TATSUMI, NORIKO YONEDA, AND NOBUO YAMAGUCHI

Secondary (AA) Amyloidosis Associated With Castleman's Disease: Report of Two Cases and Review of the Literature 394
JAUME ORDI, JOSEP M. GRAU, ANTONI JUNQUÉ, BENET NOMDEDEU, ANTONIO PALACIN, AND ANTONIO CARDESA

CLINICAL MICROBIOLOGY AND INFECTIOUS DISEASE

Original Articles

Localization of Hantaan Viral Envelope Glycoproteins by Monoclonal Antibodies in Renal Tissues from Patients With Korean Hemorrhagic Fever H 398
SUHNGGWON KIM, EUNG TAIK KANG, YOON GOO KIM, JIN SUK HAN, JUNG SANG LEE, YONG IL KIM, W.C. HALL, J.M. DALRYMPLE, AND C. J. PETERS

Rapid Screening of Salmonella Species from Stool Cultures 404
PATRICIA MUÑOZ, MARIA DOLORES DÍAZ, EMILIA CERCENADO, MARTA RODRÍGUEZ-CREIXEMS, JUAN BERENGUER, AND EMILIO BOUZA

Diagnosis of Cytomegalovirus Pneumonia by the Polymerase Chain Reaction With Archived Frozen Lung Tissue and Bronchoalveolar Lavage Fluid 407
DAVID MYERSON, PATRICIA A. LINGENFELTER, CURT A. GLEAVES, JOEL D. MEYERS, AND RALEIGH A. BOWDEN

Detection of Cytomegalovirus, *Pneumocystis carinii,* and Aspergillus Species in Bronchoalveolar Lavage Fluid: A Comparison of Techniques 414
PHILIPPE DELVENNE, JORGE E. ARRESE, ALBERT THIRY, GILBERTE BORLÉE-HERMANS, GERALD E. PIÉRARD, AND JACQUES BONIVER

CLINICAL CHEMISTRY

Original Article

Protein-Osmolality Ratio for the Quantitative Assessment of Proteinuria from a Random Urinalysis Sample 419
DAVID M. WILSON AND RONALD L. ANDERSON

Case Report

Variability in Cyst Fluid Carcinoembryonic Antigen Level, Fluid Viscosity, Amylase Content, and Cytologic Findings Among Multiple Loculi of a Pancreatic Mucinous Cystic Neoplasm 425
KENT B. LEWANDROWSKI, ANDREW L. WARSHAW, CAROLYN C. COMPTON, MICHAEL R. PINS, AND JAMES F. SOUTHERN

ANATOMIC PATHOLOGY

Original Articles

Prognostic Value of Proliferating Cell Nuclear Antigen Index in Gastric Stromal Tumors: Correlation With Mitotic Count and Clinical Outcome 428
MAHUAL B. AMIN, CHAN K. MA, MICHAEL D. LINDEN, JAMES J. KUBUS, AND RICHARD J. ZARBO

Subclinical Human Immunodeficiency Virus-Related Changes in Oral Mucosa Shown by Image Analysis of Tongue Smears 433
DYMITR D. KOMITOWSKI, STEFAN I. HELFRICH, BERTHOLD A. SCHMITT, AND KARL U. FREESE

More Advanced-Stage Tumors Among Smokers With Endometrial Cancer 439
HARRY W. DANIELL

Improved Quantitation of HER-2/*neu* Gene Copy Number in Breast Tumor-Derived DNA Samples 444
DANIEL H. FARKAS, LAURA M. McMAHON, PEITI CAI, AND ROBERT M. UMEK

DNA Analysis (Ploidy) of Molar Pregnancies With Image Analysis on Paraffin Tissue Sections 451
IAN D.R. BARCLAY, LAITH DABBAGH, JEANNET BABIAK, AND SIBRAND POPPEMA

A Comparative Study of DNA Quantitation in Breast Carcinoma With Image Cytometric Analysis and *In Vitro* Fine-Needle Aspiration With Flow Cytometric Analysis 456
GINETTE LAJOIE, INGRID ZBIERANOWSKI, CHARLENE DEMIANIUK, WILLIAM A. KNAPE, MARK G. EDINGER, RAYMOND R. TUBBS, AND DAVID MURRAY

CORRESPONDENCE AND CORRECTIONS

More on Intravascular Lymphomatosis 463
CHRISTIAN OTRAKJI

The Author's Reply 463
HIROSHI KAMESAKI

Cell Dyn 3000 and Coulter STKS Automated Differential Counters 463
PATRICIA MILLER-CANFIELD, RICK TRIPLETTE, GERARDO PERROTTA, DAVIS STROOP, AND HAROLD SCHUMACHER

The Authors' Reply 464
P. JOANNE CORNBLEET, DAVID MYRICK, RICHARD LEVY, AND SHELLEY JUDKINS

Large Granular Lymphocytosis and NK-associated Expansions of CD3+ CD4- CD8+ Type 465
C.S. SCOTT, S.J. RICHARDS, AND M. SIVAKUMARAN

The Authors' Reply 467
TSIEH SUN, JUDITH BRODY, PRASAD KODURU, VINCENT VINCIGUERRA, LORA WEISELBERG, AND JOHN MARINO

NEWS AND NOTICES 469

ERRATUM 471

Number 4, October 1993, Supplement 1

PATHOLOGY PATTERNS
ISSUES IN PATHOLOGY RESIDENCY TRAINING

Editorials

Graduate Medical Education in Clinical Pathology: The Future Is Now S1
JOHN BERNARD HENRY

Advanced Credit as Seen by the American Board of Pathology S3
WILLIAM H. HARTMANN

PRODS: An Action Word S5
DOROTHY L. ROSENTHAL AND BETSY BENNETT

Quality Assurance and Graduate Medical Education in Pathology S6
STEVEN P. NESTLER

FOREFRONTS

ASCP Colorado Springs Conference IV: Clinical Pathology Residency: Curriculum Reform S7
M. DESMOND BURKE, JOYCE M. NUZZO, AND ROBERT W. PRICHARD

Colorado Springs Conference IV: Clinical Pathology Residency Curriculum Reform: The Need for Change: A Charge to Conference Participants S16
JOHN M. MATSEN

Clinical Pathology in Community Hospitals: A Panel Discussion S20

Opening Statement: Clinical Pathology Practice Panel Discussion Colorado Springs Conference IV—1993 S20
PHILIP L. BARNEY

The Clinical Pathologists of Tomorrow S22
DAVID J. BLOMBERG

Clinical Pathology in the Community Hospital S24
RICHARD E. HOROWITZ

Training a Clinical Pathologist S26
KATHLEEN SAZAMA

Residency in Pathology: The William Beaumont Hospital Perspective S29
FREDERICK L. KIECHLE

Clinical Pathology Training S31
CYNTHIA L. REID

National Pathology Manpower Survey of 1991: Projected Needs in Community Hospitals and Private Laboratory Practice S33
ROGER D. SMITH, RICHARD P. VANCE, ROBERT E. ANDERSON, AND THOMAS A. LONG

Update on Pathology Trainees: Recruitment, Attrition, and Impact on Practice S37
RICHARD P. VANCE, ROBERT W. PRICHARD, AND ROGER D. SMITH

Graded Responsibility of Residents in Anatomic Pathology: A Survey and Commentary S41
ROBERT R. PASCAL

Informatics Training in U.S. Pathology Residency Programs: Results of a Survey S44
ULYSSES J. BALIS, RAYMOND D. ALLER, AND EDWARD R. ASHWOOD

TABLE OF CONTENTS

Number 5, November 1993

Editorials

Medical Complications of Cocaine Abuse 475
JEFFREY JENTZEN

The Antiphospholipid-Thrombosis Syndromes: Fact, Fiction, Confusion, and Controversy 477
RODGER L. BICK

ANATOMIC PATHOLOGY

Original Articles

Blackened Bronchoalveolar Lavage Fluid in Crack Smokers: A Preliminary Study 481
ELLEN GREENEBAUM, ARTHUR COPELAND, AND RITU GREWAL

Calcium Oxalate Is Associated With Benign Breast Tissue: Can We Avoid Biopsy? 488
JANET S. WINSTON, I-TIEN YEH, KATHRYN EVERS, AND ADELE K. FRIEDMAN

Muscle Involvement in Walker-Warburg Syndrome: Clinicopathologic Features of Four Cases 493
CHAIM LICHTIG, RUTH M. LUDATSCHER, HANNA MANDEL, AND RUTH GERSHONI-BARUCH

Use of Cell Image Analysis in the Detection of Cancer From Specimens Obtained During Endoscopic Retrograde Cholangiopancreatography 497
PAUL YEATON, ROBERT KISS, JACQUES DEVIERE, ISABELLE SALMON, NADINE BOURGEOIS, JEAN-LAMBERT PASTEELS, AND MICHEL CREMER

Latent Sites of Epstein-Barr Virus Infection 502
W. Y. CHEUNG, ALEXANDER C. L. CHAN, S. L. LOKE, GOPESH SRIVASTAVA, STEFANIA PITTALUGA, L. Y. LIM, AND FAITH C. S. HO

Carcinoma of the Breast Arising in Microglandular Adenosis 507
BEVERLY A. JAMES, MILICENT L. CRANOR, AND PAUL PETER ROSEN

Case Report

Epithelioid Angiosarcoma Arising in Uterine Leiomyomas 514
GIOVANNI TALLINI, FREDRIC V. PRICE, AND MARIA L. CARCANGIU

HEMATOPATHOLOGY

Original Articles

High-Grade Transformation of Chronic Lymphocytic Leukemia and Low-Grade Non-Hodgkin's Lymphoma: Genotypic Confirmation of Clonal Identity 519
S. THOMAS TRAWEEK, JANE LIU, ROCHELLE M. JOHNSON, CARL D. WINBERG, AND HENRY RAPPAPORT

Sensitive Detection of Clonal Antigen Receptor Gene Rearrangements in Non-Hodgkin's Malignant Lymphoma With an Anchored Polymerase Chain Reaction-Based Strategy 527
HOWARD RATECH AND ANEAL MASIH

Immunophenotyping of Acute Leukemia by Flow Cytometric Analysis: Use of CD45 and Right-Angle Light Scatter to Gate on Leukemic Blasts in Three-Color Analysis 534
MICHAEL J. BOROWITZ, K. LYNN GUENTHER, KEITH E. SHULTS, AND GREGORY T. STELZER

Case Report

Type 2 Epstein-Barr Virus Genome and Latent Membrane Protein-1 Expression in a T-Cell-Rich Lymphoma of Probable B-Cell Lineage 541
RICCARDO DOLCETTI, ANTONINO CARBONE, VITTORINA ZAGONEL, VALLI DE RE, ANNUNZIATA GLOGHINI, TERESA FRISAN, AND MAURO BOIOCCHI

IMMUNOPATHOLOGY

Original Articles

Immunoglobulin Conality Analysis: Resolution of Ambiguities in Immunofixation Electrophoresis Results by High-Resolution, Two-Dimensional Electrophoretic Analysis of Paraprotein Bands Eluted From Agarose Gels 550
HAROLD H. HARRISON, KATHY L. MILLER, AMER ABU-ALFA, AND STANLEY J. PODLASEK

Lambda III Subgroup Immunoglobulin Light Chains Are Precursor Proteins of Nodular Pulmonary Amyloidosis 561
KATSUTOSHI MIURA AND HARUYUKI SHIRASAWA

CLINICAL CHEMISTRY

Review Article

Nitric Oxide: Biochemistry, Pathophysiology, and Detection 567
FREDERICK L. KIECHLE AND TADEUSZ MALINSKI

COAGULATION AND TRANSFUSION MEDICINE

Original Articles

ARACHnase: An Evaluation of a Positive Control for Platelet Neutralization Procedure Testing With Seven Commercial Activated Partial Thromboplastin Time Reagents 576
DAVID L. McGLASSON, JAMES L. BABCOCK, LOIS BERG, AND DOUGLAS A. TRIPLETT

Rapid Detection of Plasma Glycocalicin by a Latex Agglutination Test: A Useful Adjunct in the Differential Diagnosis of Thrombocytopenia 579
SHINJI KUNISHIMA, SENTARO KOBAYASHI, AKIRA TAKAGI, TOMOKI NAOE, AND RYUZO OHNO

CORRESPONDENCE AND CORRECTIONS

The Frequency of Hypomagnesemia in Acute and Chronic Care Hospitalized Patients 585
CLAUDE O. BURDICK AND SHEILA DELAQUIL

Reactive Histiocytic Disorders 585
ALEX A. STEELE

Reversible Dilated Cardiomyopathy Due to Growth Hormone Deficiency 585
ROSS CUNEO, FRANCO SALOMON, PETER WILMSHURST, CLARA LOWY, GILL MCGAULEY, AND PETER SONKSEN

The Author's Reply 586
ANDREA FRUSTACI

CORRECTION 586

ERRATUM 587

NEWS AND NOTICES 590

Number 6, December 1993

Editorials

Point of Care Laboratory Testing in the Emergency Department 591
PETER JATLOW

Where Did This Come From? Identification of Sample Mix-ups by DNA Testing 592
VICTOR WALTER WEEDN

LABORATORY MEDICINE

Special Article

Laboratory Medicine Education in United States Medical Schools 594
EUGENE L. GOTTFRIED, MALEK KAMOUN, AND M. DESMOND BURKE

CLINICAL CHEMISTRY

Original Articles

The Evaluation of a Portable Clinical Analyzer in the Emergency Department 599
JANNIE WOO, JOHN BERNARD McCABE, DALE CHAUNCEY, THATCHER SCHUG, AND JOHN BERNARD HENRY

Does the Emergency Department Need a Dedicated Stat Laboratory? Continuous Quality Improvement as a Management Tool for the Clinical Laboratory 606
SUNITA SAXENA AND EDWARD T. WONG

HEMATOPATHOLOGY

Original Articles

A Comparison of the Coulter STKS, Coulter S+IV, and Manual Analysis of White Blood Cell Differential Counts in a Human Immunodeficiency Virus-Infected Population 611
ALAN J. COHEN, ELLINOR I. B. PEERSCHKE, AND ROY T. STEIGBIGEL

Evaluation of the Sysmex NE-8000: Automated Hematology Analyzer in a High-Volume Outpatient Laboratory 618
MALCOLM L. BRIGDEN, NORMA E. PAGE, AND CHRISTINE GRAYDON

A Parallel Evaluation of Four Automated Hematology Analyzers 626
STUART A. BENTLEY, ANNE JOHNSON, AND CONNIE A. BISHOP

Comparative Study of Spleen Pathology in Drug Abusers With Thrombocytopenia Related to Human Immunodeficiency Virus Infection and in Patients With Idiopathic Thrombocytopenic Purpura: A Morphometric, Immunohistochemical, and Ultrastructural Study 633
MARGARITA MARTI, EVARIST FELIU, ELIAS CAMPO, ANTONIO PALACIN, LLUIS BERGA, FRANCISCO J. CASALS, ALVARO URBANO ISPIZUA, ANTONIO CARDESA, AND CIRIL ROZMAN

CLINICAL MICROBIOLOGY AND INFECTIOUS DISEASE

Original Articles

Detection and Species Identification of Mycobacteria in Paraffin Sections of Lung Biopsy Specimens by the Polymerase Chain Reaction 643
PATRICIA M. PEROSIO AND THOMAS S. FRANK

Relationship Between Intrahepatic Expression of Hepatitis B Viral Antigens and Histology in Chinese Patients With Chronic Hepatitis B Virus Infection 648
PUI-CHEE WU, JOHNSON Y.N. LAU, THEODORE K. LAU, STEPHEN K. LAU, AND CHING-LUNG LAI

ANATOMIC PATHOLOGY

Special Article

One Century of Mammary Carcinoma In Situ: What Have We Learned? 654
ROBERT E. FECHNER

Original Articles

Detection of Epstein-Barr Viral Genome in Tumor Cells of Warthin's Tumor of Parotid Gland 662
MARCO SANTUCCI, ORESTE GALLO, ANNA CALZOLARI, AND ROBERTO BONDI

Identification of Mismatched Fixed Specimens With a Commercially Available Kit Based on the Polymerase Chain Reaction 666
DARRYL SHIBATA

Cardiac Myxoma: A Clinicopathologic Study 671
ALLEN P. BURKE AND RENU VIRMANI

A Quantitative Immunohistochemical Evaluation of Lentigo Maligna and Pigmented Solar Keratosis 681
HILARY LANE, SEAN O'LOUGHLIN, FRANK POWELL, HILARY MAGEE, AND PETER A. DERVAN

Mutation Analysis of K-*ras* Oncogenes in Gastroenterologic Cancers by the Amplified Created Restriction Sites Method 686
SHYR-YI LIN, PAO-HUEI CHEN, CHUNG-KWE WANG, JEAN-DEAN LIU, CHUAN-PAU SIAUW, YI-JEN CHEN, MING-JUI YANG, MAU-HO LIU, TE-CHUAN CHEN, AND JAN-GOWTH CHANG

The AgNOR Technique, PCNA Immunohistochemistry, and DNA Ploidy in the Evaluation of Choroid Plexus Biopsy Specimens 690
BARBARA A. CENTENO, DAVID N. LOUIS, WILLIAM J. KUPSKY, FREDERIC I. PREFFER, AND RAYMOND A. SOBEL

Osteitis Fibrosa Cystica Simulating Metastatic Tumor: An Almost-Forgotten Relationship 697
THOMAS BASSLER, EDWARD T. WONG, AND RUSSELL K. BRYNES

Case Report

Intrauterine Infarction of a Pulmonary Segment in a Full-term Newborn: A Case Report 701
L. DAVID MIRKIN AND RAYMOND C. WONG

BOOK REVIEWS 704

CORRESPONDENCE AND CORRECTIONS

Liver Dysplasia and the Interpretation of Image and Flow Cytometric Data of Hepatocytes 706
JULES J. BERMAN AND G. WILLIAM MOORE

TABLE OF CONTENTS

The Authors' Reply 706
CARINE DEPREZ AND ROBERT KISS

Report of a Case of Localized Castleman's Disease With Progression to Malignant Lymphoma 707
VITO FRANCO

The Authors' Reply 707
MOHAMMAD VASEF, WILLIAM E. KATZIN, GEOFFREY MENDELSOHN, AND MELVIN REYDMAN

A Rare Lymphoepithelial Cyst of the Pancreas 708
SVEN WIDGREN

The Authors' Reply 708
ALAN R. SCHNED AND MICHAEL P. DiCORATO

IN MEMORIAM 709

NEWS AND NOTICES 711

ACKNOWLEDGMENT 713

INDEX TO VOLUME 100 714